

09/495,122.

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Docket No.: 95-304



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent No. 6,836,546 to

WILLER

Issued: December 28, 2004

Certificate  
FEB 03 2005  
of Correction

Confirmation No. 4427

For: APPARATUS AND METHOD OF COUPLING HOME NETWORK SIGNALS  
BETWEEN AN ANALOG PHONE LINE AND A DIGITAL BUS

CERTIFICATE OF CORRECTION TRANSMITTAL

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The undersigned hereby submits the attached Certificate of Correction for issuance under 37 CFR §1.322(a)(1)(i).

Attached is a copy of the Amendment filed October 16, 2003, demonstrating that the error specified in the attached Certificate of Correction was incurred through the fault of the Office, hence no fee payment is needed.

Respectfully submitted,

Manelli Denison & Selter, PLLC

Leon R. Turkevich  
Registration No. 34,035

Customer No. 20736  
2000 M Street, N.W., 7<sup>th</sup> Floor  
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Date: January 27, 2005

11 FEB 2005

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,836,546  
DATED : December 28, 2004  
INVENTOR(S) : WILLER

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 7, line 10, delete the comma after "ISDN-based"

MAILING ADDRESS OF SENDER:

PATENT NO. 6,836,546

Leon R. Turkevich  
Manelli Denison & Selter PLLC  
2000 M St., NW, Suite 700, Wash., DC 20036

No. of additional copies

⇒ 0

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

11 FEB 2005



<b>REPLY/AMENDMENT FEE TRANSMITTAL</b>	Attorney Docket No.	95-304	
	Application Number	09/495,122	
	Filing Date	February 1, 2000	
	First Named Inventor	WILLER	
	Group Art Unit	2643	
AMOUNT ENCLOSED	\$ 110	Examiner Name	PHAM, Tuan.

**FEE CALCULATION** (fees effective 10/01/2001)

CLAIMS AS AMENDED	Claims Remaining After Amendment	Highest Number Previously Paid For	Number Extra	Rate	Calculations
TOTAL CLAIMS	12	20	0 <sup>(3)</sup>	X \$18.00 =	\$0
INDEPENDENT CLAIMS	2	3	0	X \$84.00 =	\$0

Since an Official Action set an original due date of \_\_\_\_, petition is hereby made for an extension to cover the date this reply is filed for which the requisite fee is enclosed (1 month (\$110); 2 months (\$400); 3 months (\$920); 4 months (\$1,440); 5 months (\$1,960)):

If Statutory Disclaimer under Rule 20(d) is enclosed, add fee (\$110) + \$110

Total of above Calculations = \$0

Reduction by 50% for filing by small entity (37 CFR 1.9, 1.27 & 1.28) -

**TOTAL FEES DUE = \$110**

- (1) If entry (1) is less than entry (2), entry (3) is "0".  
(2) If entry (2) is less than 20, change entry (2) to "20".  
(4) If entry (4) is less than entry (5), entry (6) is "0".  
(5) If entry (5) is less than 3, change entry (5) to "3".

**METHOD OF PAYMENT**

- ☒ Check enclosed as payment.  
☐ Charge "TOTAL FEES DUE" to the Deposit Account No., below.

**AUTHORIZATION**

- ☒ If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees under 37 CFR 1.16 or 1.17 necessary to maintain pendency of the present application to:

Deposit Account No.: 50-0687

OrderNo.: (Client/Matter) 95-304

**SUBMITTED BY: MANELLI DENISON & SELTER PLLC**

Typed Name	Leon R. Turkevich	Reg. No.	34,035
Signature		Date	October 16, 2003

**11 FEB 2005**



Docket No.: 95-304

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of

WILLER

Serial No.: 09/495,122

Filed: February 1, 2000

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Group Art Unit: 2643

Examiner: PHAM, Tuan

For: APPARATUS AND METHOD OF COUPLING HOME NETWORK SIGNALS  
BETWEEN AN ANALOG PHONE LINE AND A DIGITAL BUS

**AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Official Action mailed July 16, 2003, please amend the application as

follows:

**AMENDMENTS TO THE SPECIFICATION** begin on page 2;

**AMENDMENTS TO THE CLAIMS** begins on page 3;

**REMARKS** begin on page 8.

**11 FEB 2005**

## **AMENDMENTS TO THE SPECIFICATION**

Page 1, after the title, insert the following new paragraph:

This application claims priority from Provisional Application No. 60/163,240, filed  
November 3, 1999.



## AMENDMENTS TO THE CLAIMS

1. (ORIGINAL) A method of implementing a local area network in a home telephone network having a connector, configured for sending and receiving ISDN-based signals to and from a public switched telephone network, and a four-wire bus including a two-wire send path and a two-wire receive path for sending and receiving the ISDN-based signals, respectively, between the connector and connected ISDN terminal devices, the method comprising:

connecting a high pass filter between the four-wire bus and a two-wire analog telephone line configured for transmitting analog telephone signals; and

transmitting network data signals between a first network node coupled to the four wire bus and a second network node coupled to the two-wire analog telephone line.

2. (ORIGINAL) The method of claim 1, further comprising isolating capacitive influences of each of the connected terminal devices from the two-wire send path by adding a common mode choke between each corresponding ISDN terminal device and the two-wire send path.

3. (CURRENTLY AMENDED) The method of claim 2, wherein the transmitting step includes:

coupling ~~[[the]]~~ a first home network signal to a middle tap of a primary winding of a first S0 transformer coupled to the two-wire send path; and

coupling [[the]] a second home network signal to the middle tap of the primary winding of a second S0 transformer coupled to the two-wire ~~send~~ receive path.

4. (CURRENTLY AMENDED) The method of claim 3, further comprising receiving by the second network node the first and second home network signals, comprising:

receiving the first home network signal from the middle tap of the primary winding of a third S0 transformer coupled to the two-wire send path;

receiving the second home network signal from the middle tap of the primary winding of a fourth S0 transformer coupled to the two-wire ~~send~~ receive path; and

passing the first and second home network signals through the high pass filter to the second network node via the two-wire telephone line.

5. (ORIGINAL) The method of claim 4, wherein the transmitting step includes transmitting the first and second home network signals to the second network node across a distance of about 80 meters.

6. (CURRENTLY AMENDED) The method of claim 1, wherein the transmitting step includes:

coupling [[the]] a first home network signal to a middle tap of a primary winding of a first S0 transformer coupled to the two-wire send path; and

coupling ~~[[the]]~~ a second home network signal to the middle tap of the primary winding of a second S0 transformer coupled to the two-wire ~~send~~ receive path.

7. (CURRENTLY AMENDED) The method of claim 6, further comprising receiving by the second network node the first and second home network signals, comprising:

- receiving the first home network signal from the middle tap of the primary winding of a third S0 transformer coupled to the two-wire send path; and
- receiving the second home network signal from the middle tap of the primary winding of a fourth S0 transformer coupled to the two-wire ~~send~~ receive path; and
- passing the first and second home network signals through the high pass filter to the second network node via the two-wire telephone line.

8. (ORIGINAL) A computer network comprising:

- a connector configured for sending and receiving ISDN-based signals to and from a public switched telephone network;
- a four-wire bus having a two-wire send path and a two-wire receive path for sending and receiving the ISDN-based signals between the connector and ISDN terminal devices;
- a low pass filter, coupled between the two-wire send path and the connector, for isolating capacitive influences of the connector from the two-wire send path and filtering ISDN harmonic signals occurring substantially at the frequencies of network data signals;
- ISDN terminal filters, each configured for isolating capacitive influences of a corresponding one of the ISDN terminal devices from the two-wire send path;



first and second end stations configured for exchanging the network data signals at frequencies substantially higher than the ISDN-based signals via at least one of the two-wire send path and the two-wire receive path, the first end station coupled to at least one of the two-wire send path and the two-wire receive path and the second end station coupled to an analog telephone line; and

a high pass filter for coupling the four-wire bus to the analog telephone line, the second end station exchanging the network data signals via the analog telephone line and the four-wire bus.

9. (ORIGINAL) The computer network of claim 8, further comprising first and second S0 transformers configured for coupling the first end station to the two-wire send path and the two-wire receive path, respectively, each of the first and second S0 transformers having a primary winding coupled to the corresponding two-wire path, each primary winding having a middle tap path configured for coupling to a corresponding network data signal differential input of the first end station.

10. (ORIGINAL) The computer network of claim 9, further comprising third and fourth S0 transformers configured for coupling the high pass filter to the two-wire send path and the two-wire receive path, respectively, each of the third and fourth S0 transformers having the primary winding coupled to the corresponding two-wire path and having the middle tap path configured for coupling to a corresponding terminal end of the high pass filter.

11. (ORIGINAL) The computer network of claim 10, wherein the first and second end stations exchanging the network data signals across the two-wire send path and the two-wire receive path have a transmission distance of about 80 meters.

12. (ORIGINAL) The computer network of claim 8, wherein the four-wire bus is an internal S0 bus of a private branch exchange.

### REMARKS

Reconsideration and allowance of the above-referenced application are respectfully requested. Claims 1-12 are pending in the application.

Applicant hereby amends the application as required to perfect the priority claim under 35 USC §119 and 37 CFR §1.78(a)(5). Since the subject application was filed before November 29, 2000, the time periods of 37 CFR §1.78(a)(5)(ii) do not apply. See 37 CFR §1.78(a)(5)(ii)(A).

Claims 1-11 stand rejected under the judicially created doctrine of obviousness-type double patenting in view of claims 1-12 of U.S. Patent No. 6,522,728 to Willer ("Willer '728") in view of U.S. Patent No. 6,038,300 to Hartmann et al. Claim 12 stands rejected under the judicially created doctrine of obviousness-type double patenting in view of claims 1-12 of Willer '728 , Hartmann et al., and U.S. Patent No. 6,473,495 to Willer.

Applicant concurrently submits a Terminal Disclaimer to overcome the obviousness-type double patenting rejection of claims 1-12 based on Willer '728. Hence, it is believed claims 1-12 are in allowable form.

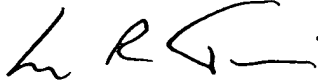
In view of the above, it is believed this application is in condition for allowance, and such a Notice is respectfully solicited.

To the extent necessary, Applicant petitions for an extension of time under 37 C.F.R.

1.136. Please charge any shortage in fees due in connection with the filing of this paper, including any missing or insufficient fees under 37 C.F.R. 1.17(a), to Deposit Account No. 50-0687, under Order No. 95-304, and please credit any excess fees to such deposit account.

Respectfully submitted,

MANELLI DENISON & SELTER, PLLC



Leon R. Turkevich  
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**Date: October 16, 2003**

Amendment filed October 16, 2003  
Appln. No. 09/495,122  
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Docket No.: 95-304

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of

WILLER

Serial No.: 09/495,122

Filed: February 1, 2000

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Group Art Unit: 2643

Examiner: PHAM, Tuan

For: APPARATUS AND METHOD OF COUPLING HOME NETWORK SIGNALS  
BETWEEN AN ANALOG PHONE LINE AND A DIGITAL BUS

**TERMINAL DISCLAIMER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The owner \*, Advanced Micro Devices, Inc., of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application, which would extend beyond the expiration date of the full statutory term defined in 35 U.S.C. 154 to 156 and 173 as shortened by any terminal disclaimer filed prior to the grant of any patent granted on second Application Number 09/495,123, filed on February 1, 2000 of any patent on the pending second application, including U.S. Patent No. 6,522,728. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and any patent granted on the second application are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 to 156 and 173 of any patent granted on the second application, as shortened by any terminal disclaimer filed prior to the patent grant, in the event that any such granted patent: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court

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Terminal Disclaimer for WILLER  
Appln. No. 09/495,122  
Page 2

of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as shortened by any terminal disclaimer filed prior to its grant.

Check either box 1 or 2 below, if appropriate.

1. ☐ For submissions on behalf of an organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

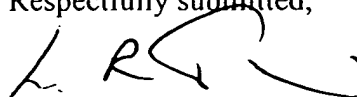
2. ☒ The undersigned is an attorney or agent of record.

☒ Terminal Disclaimer fee under 37 CFR 1.20(d) is included.

☐ The Commissioner is authorized to charge the Terminal Disclaimer fee under 37 CFR 1.20(d) to Deposit Account No. 50-0687, under Order No. 95-304

\* Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).

Respectfully submitted,



Leon R. Turkevich  
Registration No. 34,035

Customer No. 20736  
(202) 261-1000  
Date: October 16, 2003

11 FEB 2005